

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/808,538	03/25/2004	Shui-on Leung	78258.329329	4870
35657 FAEGRE & BI	7590 01/24/200 ENSON LLP	EXAMINER		
PATENT DOC		TUNGATURTHI, PARITHOSH K		
2200 WELLS FARGO CENTER 90 SOUTH SEVENTH STREET MINNEAPOLIS, MN 55402-3901			ART UNIT	PAPER NUMBER
			1643	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	01/24/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provious of 37 CFR 1:38(d). In no event, mover, may a reply be timely filled. If NO period for may be is specified above, the maximum statutory period will apply and will expire SN; (8) MONTHS from the mailing date of this communication. Failur to reply within he stor or decimided private for righy will, by statuke, cause the application to incorem ABANDONED (51 u.S. C. § 1:33). Any reply received by the Office later than three months after the malling date of this communication, even if timely filled, may reduce any seamed planning. Stat of CFR 1:74(6). Status 1) Responsive to communication (s) filled on 09 November 2006. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 3.4.9-16 and 18-22 is/are pending in the application. 4a) Of the above claim(s) 15.16.18 and 19 is/are withdrawn from consideration. 5) Claim(s) 22 is/are allowed. 6) Claim(s) 2.2 is/are allowed. 6) Claim(s) 3.4.9-14.20 and 21 is/are rejected. 7) Claim(s) is/are objected to by the Examiner. 10 The drawing(s) filled on is/are: a) accepted or b) objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10 The drawing(s) filled on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a) (d) or (f). a) All b) Some * C) Mone		Application No.	Applicant(s)				
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DETAILED ACTION

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The applicant has timely traversed the non-final rejection in the reply filed on 1.

11/09/2006, and a response to the arguments is set forth.

2. Claims 3, 4, 9 and 12 have been amended.

3. Claim 22 has been newly added.

Claims 3, 4, 9-14, 20, 21 and 22 are under examination. 4.

The text of those sections of Title 35 U.S.C. code not included in this office action 5.

can be found in a prior office action.

This office action consists of new grounds of rejections. 6.

Objections Withdrawn

The objection of the specification as stated in paragraph 5 of the previous office 7.

action mailed on 07/10/2006 is withdrawn in view of amendments to the specification.

Rejections Withdrawn

The rejection of claims 9-14 under 35 U.S.C. 112, second paragraph, as being 8.

indefinite for failing to particularly point out and distinctly claim the subject matter which

applicant regards as the invention is withdrawn in view of amendments to the claims.

The rejection of claims 3 and 4 under 35 U.S.C. 112, first paragraph, because 9.

the specification, while being enabling for a nucleic acid encoding a chimeric anti-

idiotype antibody or fragment thereof, wherein said antibody or fragment thereof

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specifically binds to the idiotype region of an anti-CEA monoclonal antibody comprising all of the rW12 heavy and light chain variable regions as set forth in SEQ ID NOs:1, 2 and 3 and SEQ ID NOs:4, 5, and 6 respectively, does not reasonably provide enablement for an anti-idiotype antibody which does not contain a full set of six CDRs is withdrawn in view of amendments to the claims.

10. The rejection of claims 9-14 under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement is withdrawn in view of amendments to the claims.

New Grounds of Rejections

11. Claims 3, 4, 20 and 21 are vague and indefinite in the recitation of "rWl2" as the sole means of identifying the expressed gene referred to in claims 20 and 21. The use of laboratory designations to identify a particular molecule renders the claims indefinite because different laboratories may use the same laboratory designations to define completely distinct molecules.

Amending the claims to specifically and uniquely identify rWI2, for example, by SEQ ID NO can obviate this rejection.

12. Claims 9-14 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to

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one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The MPEP states that the purpose of the written description requirement is to ensure that the inventor had possession, at the time the invention was made, of the specific subject matter claimed. The courts have stated:

"To fulfill the written description requirement, a patent specification must describe an invention and do so in sufficient detail that one skilled in the art can clearly conclude that "the inventor invented the claimed invention." *Lockwood v. American Airlines, Inc.*, 107 F.3d 1565, 1572, 41 USPQ2d 1961, 1966 (Fed. Cir. 1997); *In re Gostelli*, 872 F.2d 1008, 1012, 10 USPQ2d 1614, 1618 (Fed. Cir. 1989) ("[T]he description must clearly allow persons of ordinary skill in the art to recognize that [the inventor] invented what is claimed."). Thus, an applicant complies with the written description requirement "by describing the invention, with all its claimed limitations, not that which makes it obvious," and by using "such descriptive means as words, structures, figures, diagrams, formulas, etc., that set forth the claimed invention." *Lockwood*, 107 F.3d at 1572, 41 USPQ2d at 1966." *Regents of the University of California v. Eli Lilly & Co.*, 43 USPQ2d 1398.

Further, for a broad generic claim, the specification must provide adequate written description to identify the genus of the claim. In *Regents of the University of California v. Eli Lilly & Co.* the court stated:

"A written description of an invention involving a chemical genus, like a description of a chemical species, 'requires a precise definition, such as by structure, formula, [or] chemical name,' of the claimed subject matter sufficient to distinguish it from other materials." Fiers, 984 F.2d at 1171, 25 USPQ2d 1601; In re Smythe, 480 F.2d 1376, 1383, 178 USPQ 279, 284985 (CCPA 1973) ("In other cases, particularly but not necessarily, chemical cases, where there is unpredictability in performance of certain species or subcombinations other than those specifically enumerated, one skilled in the art may be found not to have been placed in possession of a genus ...") Regents of the University of California v. Eli Lilly & Co., 43 USPQ2d 1398.

MPEP § 2163 further states that if a biomolecule is described only by a functional characteristic, without any disclosed correlation between function and structure of the sequence, it is "not sufficient characteristic for written description purposes, even when accompanied by a method of obtaining the claimed sequence." MPEP § 2163 does state that for a generic claim the genus can be adequately described if the disclosure

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presents a sufficient number of representative species that encompass the genus. If the genus has a substantial variance, the disclosure must describe a sufficient variety of species to reflect the variation within that genus. See MPEP § 2163. Although the MPEP does not define what constitute a sufficient number of representative species, the courts have indicated what do not constitute a representative number of species to adequately describe a broad generic. In *Gostelli*, the courts determined that the disclosure of two chemical compounds within a subgenus did not describe that subgenus. *In re Gostelli*, 872, F.2d at 1012, 10 USPQ2d at 1618.

The factors considered in the Written Description requirement are (1) level of skill and knowledge in the art, (2) partial structure, (3) physical and/or chemical properties, (4) functional characteristics alone or coupled with a known or disclosed correlation between structure and function, and the (5) method of making the claimed invention. Disclosure of any combination of such identifying characteristics that distinguish the claimed invention from other materials and would lead one of skill in the art to the conclusion that the applicant was in possession of the claimed species is sufficient." MPEP § 2163.

In the instant case, the claims are drawn to an isolated expression vector comprising a first nucleic acid sequence that encodes a WI2 heavy chain and a second nucleic acid sequence that encodes a WI2 light chain.

The specification teaches that rWI2 is a rat anti-idiotype antibody against an anti-carcinoembryonic antigen antibody (MN-14). In addition hWI2 is disclosed, wherein the FR rat regions of rWI2 are replaced by the human IgG counterpart; and chimeric (CWI2) is disclosed (paragraphs 51-53, in particular). The specification also discloses the amino acid sequences for rWI2 and hWI2. Further, Fig. 5 shows a comparison between hWI2(RS), hWI2, cWI2, and rWI2 in competitive binding assays; Fig.6 and Fig.7 show the nucleic acid sequence for the variable region of rWI2 light and heavy chain, respectively.

The specification does not teach various other forms of WI2 and is silent about the variants and/or any other forms of WI2 as encompassed by the claims. The specification provides the design of hVh and hVk by aligning the rVh and rVk in figures 1, 2 and 3; in addition to showing the comparison between hWI2, cWI2, and rWI2 in competitive binding assays in figure 5. However, the specification neither discloses a general antibody, WI2 as claimed, nor does it provide any information as to what WI2 is and if it is well known in the art. Also, the specification does not teach any SEQ ID NO for WI2. Thus, the specification does not provide specific guidance that would enable one skilled in the art to make and use the invention without undue experimentation. The specification does not disclose the extremely large number of Vh and VI broadly encompassed by the claims.

It is known in the art that WI2 is an anti-idiotypic antibody against an anti-carcinoembryonic antigen antibody (MN-14). However, the amino acid sequence (framework region and CDRs) and the structure of WI2 and various forms (cWI2, rWI2

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and hWl2) as claimed are not known. Thus, neither the specification nor the relevant art revealed any specific sequence for a Wl2 anti-idiotypic antibody as claimed. Thus, the physical and chemical properties, including the defined functional properties and the methods of preparation, of the various forms of Wl2 encompassed by the claims are not disclosed in the specification.

As stated supra, the MPEP states that written description for a genus can be achieved by a representative number of species within a broad genus. Claims 9, 10, 12 and 14 are broadly generic to all possible WI2 anti-idiotypic antibodies encompassed by the claims. The possible variations are enormous to any class of anti-idiotypic Since the MPEP states that if a biomolecule is described only by a antibodies. functional characteristic, without any disclosed correlation between function and structure, it is "not sufficient characteristic for written description purposes, even when accompanied by a method of obtaining the claimed sequence." MPEP § 2163. Here, though the claims may recite some functional characteristics, the claims lack written description because there is no disclosure of a correlation between function and structure of WI2 alone beyond those disclosed in the examples in the specification, which pertain to hWI2, cWI2 and rWI2. Moreover, the specification lacks sufficient variety of species to reflect this variance in the genus since the specification does not provide any examples of any WI2 other than hWI2, cWI2, and rWI2.

While having written description of hWI2, cWI2, and rWI2 identified in the figures of the specification, the specification is devoid of any other WI2 that qualify for the

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functional characteristics claimed. The description requirement of the patent statue requires a description of an invention, not an indication of a result that one might achieve if one made that invention. See In re Wilder, 736, F.2d 1516, 1521, 222 USPQ 369, 372-73 (Fed. Cir. 1984) (affirming rejection because the specification does "little more than outlin[e] goals appellants hope the claimed invention achieves and the problems the invention will hopefully ameliorate.") Accordingly, it is deemed that the specification fails to provide adequate written description for the genus of the claims and does not reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the entire scope of the claimed invention.

Allowable Subject Matter

Claim 22 is allowed. 13.

Conclusion

Any inquiry concerning this communication or earlier communications from the 14. examiner should be directed to Parithosh K. Tungaturthi whose telephone number is 571-272-8789. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry R. Helms, Ph.D. can be reached on (571) 272-0832. The fax phone Application/Control Number: 10/808,538

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number for the organization where this application or proceeding is assigned is 571-

273-8300.

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Respectfully,

Parithosh K. Tungaturthi, Ph.D.

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